Program Aims

**The graduate of the Mechatronics engineering program must:**

PA1. Identify, formulate, and solve complex Mechatronics engineering problems by applying principles of engineering, science, and mathematics.

PA2. Apply Mechatronics engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

PA3. Communicate effectively with a range of audiences.

PA4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of Mechatronics engineering solutions in global, economic, environmental, and societal contexts.

PA5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

PA6. Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

PA7. Acquire and apply new knowledge as needed, using appropriate learning strategies.

PA8. Use techniques, skills, and modern engineering tools necessary for Mechatronics engineering practice.

PA9. Demonstrate leadership qualities, business administration and entrepreneurial skills.

PA10. Recognize his/her role in promoting the engineering field and contribute in the development of the profession and the community.